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DIVISION OF OIL
GAS & MINING

MR Form 3
(Revised 1984)

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year Jan/1984
to Month/Year Dec/1984

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR: Umetco Minerals Corp. MINE NAME: Hecla Shaft
ADDRESS: P.O. Box 307, La Sal, Utah 84530
PERMIT NUMBER AND DATE OF PERMIT: ACT/037/043-----12/20/80
REPRESENTATIVE: Bruce A. Greene
SECTION(S): 6 TOWNSHIP(S): 32S RANGE(S): 26E
MINERAL(S) MINED: Uranium
STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: UMI #24092
SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: none

WRONG
LEGALS

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

<u>Disturbance</u>	<u>Acreage</u>
Pit	not applicable
Roads	<u>none</u>
Facilities	<u>"</u>
Waste Dumps	<u>"</u>
Other	<u>"</u>

(b) Tabulation of acreage affected to date (by years).

<u>Date by Year</u>	<u>Acreage (Total)</u>
1975	<u>0</u>
1976	<u>0</u>
1977	<u>0</u>
1978	<u>0</u>
1979	<u>24.3</u>
1980	<u>29.3</u>
1981	<u>29.3</u>
1982	<u>29.3</u>
1983	<u>29.3</u>

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

	<u>Area</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>etc.</u>
Area Affected (in mining sequence) (If more space is needed, please attach.)				
	<u>none</u>			
Acreage of Area	<u>none</u>			
Depth of Topsoil Removal (inches)	<u></u>			
Depth of Topsoil Replacement (inches)*	<u></u>			
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	<u></u>			
Volume Actually Salvaged (yd ³ or ac ft)	<u></u>			
Volume Required for Reclamation (yd ³ or ac ft)	<u></u>			
Surplus or Deficit Volume (yd ³ or ac ft)	<u></u>			
Storage Status (short- or long-term)	<u></u>			

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location				
Area Where Soil Has Been Used (if not stored)				
Running Total (all stockpiles) (yd ³ or ac ft)				
Short-term				
Long-term				

*Of previously stripped area recently reclaimed.

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

Area	Date	Acreage
none		

(e) Tabulation of quantity of commodity mined.

	Commodity	Tonnage
(Mined)	none	
(Milled)	none	

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

- Buildings and support facilities.
none

- Roads.
none

3. Diversion ditches, collector ditches, interceptor ditches, etc.
see letters attached from DOGM and Umetco dated May 1984

4. Culverts.

5. Sediment ponds, containment ponds.
see letters dated May 1984 DOGM and Umetco

6. Monitoring sites (vegetative, air quality, surface subsidence,
surface water or ground water, etc.).
seep from mine water discharge holding ponds

7. Topsoil stockpiles.
none

(g) Description of any environmental problem areas with a proposed plan
for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.
none

2. Subsidence.
none

3. Accidental water discharge, dam failure, etc.
none

4. Slumping, sliding or erosion.
none

5. Revegetation problem areas.
none

6. Existence and location of unsuitable (toxic) overburden.
none

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

none

2. Topsoiled areas.

Area

Acreage

none

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
none	

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>
none	

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	0
1976	0
1977	0
1978	0
1979	0
1980	0
1981	0
1982	0
1983	0
1984	0

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.
none

2. Type of seed (species) used for seeding during the report period.
none

3. Date of seeding during the report period.

Spring none

Fall

4. Seeding procedures used.

(Hand broadcast or drilled or any other).
none

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)
none

6. Type and rate of fertilizer applied.
none

7. Type and rate of mulch applied.
none

8. Rate of irrigation water applied, if any. Please describe any
type of sprinkling, or water applied (water truck, etc.).
none

9. Revegetation test plot information.

(Cover, density, productivity, etc.)
planting to be done in spring of 85

10. Soil analysis results.
none

(d) Description of results of previous revegetation efforts, including:
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.
none

2. Types (species) of seed that are not growing successfully.
none

3. Areas experiencing problems with weeds and weed types.
russian thistle all areas

4. Significant erosional problems.
none

5. Areas of unsuitable overburden on the surface as related to
revegetation failure.
none

6. Procedures used or proposed to correct these problems.
none

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>
none		

8. Results of soil analysis.
none

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading	none	
2. Backfilling		
3. Contouring		
4. Topsoil Replacement		
5. Seeding		
A. Seedbed Preparation		
B. Mulch		
C. Fertilizer		
D. Seed		
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	\$117,800.00	surety contract	Jan. 25, 1985

Increased disturbance, if any:

none

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

The mine was placed on standby on 1/1/82 and no mining activity has occurred on the property since that date. Plans were formulated between DOGM, Department of Health and Umetco to build a water treatment plant by mid year 1985. Construction will begin in April 1985. Work was done per DOGM letter dated May 9, 1984 and Umetco's letter dated May 25, 1984. (see attached)

The permit was transferred to Umetco Minerals Corp. from Union Carbide Corp. on 1/25/85. A surety contract was made to the bond estimate on 1/25/85.



Test Plot Results as of 5/20/85 - Planted 11/16/83

(see method of planting)

Plat A

- #1- no growth
- #2- sparce growth, low productivity
- #3- very sparce , one plant
- #4- sparce growth, low productivity
- #5- no growth
- #6- fair growth, low productivity
- #7- no growth
- #8- no growth
- #9- fair growth, low productivity
- #10 sparce growth, low productivity
- #11 sparce growth, very low productivity
- #12 fair growth only wheatgrasses, some ricegrass

Plat B

- #38- no growth only wild russian thistle (sparce)

Plat C

- #37- no growth sparce russian thistle

Plat D

- #12- fair ricegrass, yellow sweatclover fair to good on top with good productivity, thick spike wheatgrass sparce, and sparce russian thistle

Plat E

- #24- no growth russian thistle sparce

Plat F

- #13- no growth
- #14- fair to good growth, low productivity
- #15- fair growth, low productivity
- #16- fair growth, low productivity
- #17- no growth
- #18- fair to good growth, fair productivity
- #19- no growth
- #20- sparce growth, low productivity
- #21- good growth, fair productivity
- #22- very sparce, one plant
- #23- fair growth, low productivity
- #24- fair spike wheatgrass, one saltbrush, low crested wheatgrass, low western wheatgrass, no other growth

LASAL AREA REVEGETATION TEST PLATS

Planted November 16 & 17, 1983

I METHOD

Plat A: Snowball Waste

Pile leveled and oriented north-south, species planted in rows numbered 1-12 according to index attached. No ammendments or mulch added.

Plat B: Snowball Waste - Control

Waste in pile as dumped, stake marked central #38, pile surface scalloped with shovel, no seeding, fertilized.

Plat C: Beaver Waste - Control

Waste in pile as dumped, nothing done to surface. No seeds, fertilizer etc. added. Marked as #37.

Plat D: LaSal Waste

Waste in pile as dumped, sides terraced, seeding mix broadcast and surface dragged. No fertilizer or mulch used. Marked #12.

Plat E: Beaver Waste

Waste leveled and oriented east-west. Seeds mixed, broadcast, fertilizer added and surface raked in. Marked #24.

Plat F: LaSal Waste

Pile leveled and oriented east-west. Seeds planted in rows numbered 13-24. Fertilizer and mulch added.

Plats G & H: Available for further testing.

APPENDIX

II Species used and planting code number

1	13	winterfat	18.50
2	14	thick spike wheatgrass	3.90/pls.
3	15	yellow sweet clover	.68
4	16	russian wildrye	2.70
5	17	shadscale saltbush	8.00
6	18	crested wheatgrass - Nordum	1.00
7	19	rabbit brush (Nauseosus)	.68
8	20	rand dropseed	2.72
9	21	western wheatgrass	2.40
10	22	four wing saltbush	6.00
11	23	indian ricegrass	8.15
12	24	mixture of eleven	

III Amendments

- A. Mulch: Jacklin organic mulch
- B. Fertilizer: Ammonium-Nitrate
Manganese Sulfate
Superphosphate